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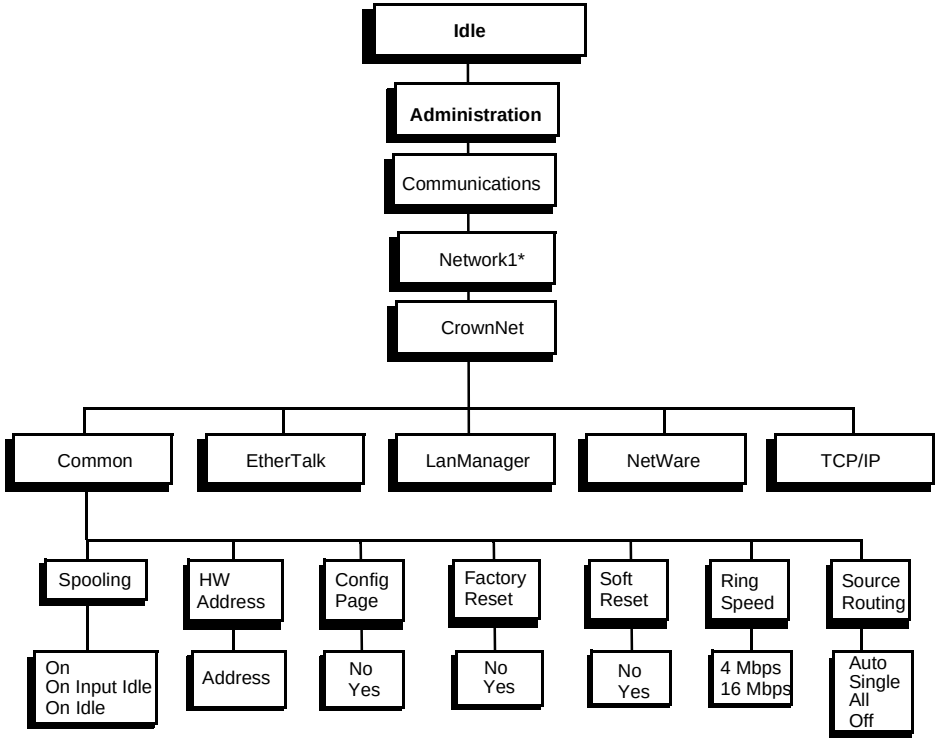
Common Menu

This menu gives you choices common to all of the CrownNet communications interfaces.



**Some printers may not have a Network 1 and a Network 2 interface menu.*

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Selecting Spooling Options

Crown technology allows QMS Crown printers to accept data simultaneously over all available interface ports. The Administration/Communications/Network*x*/CrownNet/Common/Spooling menu allows you to control how print jobs accepted over the CrownNet interface are spooled and sent to the printer.

Menu	Administration/Communications/Network*x*/CrownNet/Common/Spooling
Choices	**On**—Print jobs are accepted, spooled to memory, and sent to the printer controller for printing as soon as it will accept them. Therefore, several print jobs may be considered active at one time. **On Idle**—Print jobs are spooled to memory when the printer is idle (all pages of the previous print job have been printed). Therefore, only a single print job is active at one time. **On Input Idle**—Print jobs are accepted and spooled to memory when all pages from the previous job have been input. This means that the printer controller has finished compiling the previous print job, but not all of the pages have necessarily been printed.
Default	On Input Idle
Effectivity	Changes take effect as soon as you put the printer back on line.

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Notes	Choosing either On or On Input Idle automatically sets the Mode option in the Administration/Communications/Network*x*/CrownNet/TCPIP/Accnting/Revchan menu to Disabled, thus disabling TCP/IP accounting.

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Setting the Hardware Address

The HW Address menu allows you to override the factory-default hardware address.

Menu	Administration/Communications/Network*x*/CrownNet/Common/HW Address
Choices	00000000-7FFFFFFF
Default	FFFFFFFF
Effectivity	The CrownNet interface must be reset for changes to take effect. Use the Administration/Communications/Network*x*/CrownNet/Common/Soft Reset menu.
Notes	The hardware address is printed on the printer's start-up page. If the HW Address value is the default FFFFFFFF, the physical address is the QMS S/N 080086*xxxxxx* for Ethernet or 100061*xxxxxx* for Token-Ring. Ethernet addresses begin with "0200." These numbers are not displayed on the printer control panel, and they may not be changed. For example, if the HW Address is set to 12341234, the physical Ethernet address of the printer is actually 020012341234. Token-Ring addresses begin with "1000". These numbers are not displayed on the printer control panel. When the address is changed from the default, the Token-Ring address begins with "4000" For example, if HW Address is set to 43214321, the Token-Ring hardware address of the printer will be 400043214321.

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Printing a Configuration Page

The Config Page menu allows you to print the QMS CrownNet interface's internally generated configuration pages. These pages include information on the configuration of all protocols on the CrownNet interface.

Menu	Administration/Communications/Network*x*/CrownNet/Common/Config Page
Choices	**No**—Does not print a configuration page. **Yes**—Prints a configuration page.
Default	No
Effectivity	The status page is sent to the print engine as soon as the printer is put back on line. You must put the printer back on line wihin 20 seconds after selecting a configuration page.

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Resetting Factory Defaults

The Factory Reset menu allows you to reset all QMS CrownNet interface configuration settings (except the Internet and HW addresses) to their factory default values.

Menu	Administration/Communications/Network*x*/CrownNet/Common/Factory Reset
Choices	**No**—Does not reset all configuration settings to their factory default. **Yes**—Resets all configuration settings to their factory default.
Default	No
Effectivity	The CrownNet interface must be reset for changes to take effect. Use the Administration/Communications/Network*x*/CrownNet/Common/Soft Reset menu.
Notes	Choosing Yes resets only the CrownNet interface configuration settings to their factory default. It does not reset the whole printer configuration menu. The Internet and HW addresses are not changed.

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Using a Soft Reset

The Soft Reset menu allows you to reset the QMS CrownNet interface (not the entire printer). It is used to put certain CrownNet interface configuration changes into effect.

Menu	Administration/Communications/Network*x*/CrownNet/Common/Soft Reset
Choices	**No**—Does not reset the CrownNet interface. **Yes**—Resets the CrownNet interface.
Default	No
Effectivity	Changes to this menu take effect as soon as the CrownNet interface is idle.
Notes	Make sure that you have set up a printer name under the interface menu before you do a soft reset.

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Setting the Token-Ring Speed

The Ring Speed menu allows you to select the speed of the Token-Ring network.

» **Note:** *This menu is applicable to Token-Ring configuration only.*

Menu	Administration/Communications/Network*x*/CrownNet/Common/Ring Speed
Choices	4 Mbit/Sec 16 Mbit/Sec
Default	16 Mbit/Sec
Effectivity	The CrownNet interface must be reset for changes to take effect. Use the Administration/Communications/Network*x*/CrownNet/Common/Soft Reset menu.
Notes	This cannot be configured from CrownAdmin 3 unless you use remote console. Make sure that you disconnect the printer from the network before you change the ring speed.

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Identifying Source Routing

The Source Routing menu allows you to identify the default type of source routing broadcast information in outgoing frames. It is used when a previous route cannot be found in the source routing table.

» **Note:** *This menu is applicable to Token-Ring configuration only.*

Menu	Administration/Communications/Network*x*/CrownNet/Common/Source Routing
Choices	**All**—Send as an all-routes-explorer frame, also known as an all-routes-broadcast frame. This setting is useful if your network doesn't have a spanning tree, where frames can be exchanged using single-route-broadcast frames, or if large amounts of data are being transmitted and the spanning tree offers a nonsatisfactory route. This setting creates a higher network load than either Auto or Single in the route determination phase, but it is more likely to result in the best choice of route.

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Auto—Send as the most appropriate frame type, based on the entries in the SAP route-guess table. (See “SAP Route-Guess Table,” later in this section, for more information.)

This setting is useful for most environments. However, under certain circumstances (such as an extremely heavy network load, network source routing policies, or an obscure mixture of servers using different source routing types at the same SAP) you may need to switch to one of the other settings.

Off—Send without source routing information.

This setting is useful in strictly “transparent bridge” environments or with old equipment that doesn’t support source routing. Received frames with route information are still answered along that specific route, but when the source routing table entry times out, the route cannot be rediscovered from the CrownNet interface.

Single—Send as a spanning-tree-explorer frame, also known as a single-route-broadcast frame.

This setting is useful in environments where there are no “transparent bridges” and where a spanning tree protocol is successfully used by the Token-Ring bridges.

Default	Auto
Effectivity	Changes to this menu take effect as soon as the printer is put back on line.

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Notes	The source routing table maintains 16 entries. After 20 seconds these entries default to the setting in this menu. This cannot be configured from CrownAdmin 3 unless you use remote console.

Storing Source Routing Information

The SAP (Service Access Point) route-guess table stores source routing information. It is updated using the routing information kept in one of the following:

- The frame last received by that SAP
- The frame last sent to a specific address and that SAP, when using a specific route found in the source routing table.

If the frame last sent or received included routing information, the guess entry is updated to try a single-route-broadcast next time. In any case, the current broadcast guess entry for an SAP is considered successful and up to date when a frame is received specifically addressed to the CrownNet interface on that SAP or a frame is sent to a specific address and that SAP.

When an entry in the SAP table is not updated, it times out after any of the following events:

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- Five seconds have passed since the last transmission of a frame using a route-type-guess for the source route of that SAP.
- Three frames have been sent using a route-type-guess, after a previous route-type-guess timed out from any of the listed events.
- Ten frames have been sent using a route-type-guess after that route-type-guess was considered successful by receiving a frame addressed specifically to the CrownNet interface or by transmitting a frame along a route found in the source routing table.

When a route-type-guess entry times out, it is updated with a new guess taken in the following cycling order: no route, single route, all routes.